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Application No.	<u>10/045,837</u>	Prepared by	<u>J. Robbins</u>
Examiner-GAU	<u>Fascal - 2817</u>	Date	<u>12-22-03</u>
		No. of queries	(1)
		Tracking Number	<u>05869869</u>
		Week Date	<u>12-1-03</u>
		IFW	

**JACKET**

a. Serial No. f. Foreign Priority k. Print Claim(s) p. PTO-1449  
b. Applicant(s) g. Disclaimer l. Print Fig. q. PTOL-85b  
c. Continuing Data h. Microfiche Appendix m. Searched Column r. Abstract  
d. PCT i. Title n. PTO-270/328 s. Sheets/Figs  
e. Domestic Priority j. Claims Allowed o. PTO-892 t. Other

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## **RESPONSE**

Thank you  
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## **initials**

<b>FORM PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>	<b>Docket Number (Optional)</b> <b>89160.0010</b>	<b>Application Number</b> <b>10/045,837</b>
<b>Applicant</b> <b>GURVICH et al.</b>		
<b>Filing Date</b> <b>January 11, 2002</b>		<b>Group Art Unit</b> <b>2817</b>
<i>Please use several sheets if necessary)</i>		

FOREIGN PATENT DOCUMENTS						Translation	
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
						Abstract	

**EXAMINER** \_\_\_\_\_ **DATE CONSIDERED** \_\_\_\_\_

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

FORM PTO-1449	Docket Number (Optinal) 89160.0010	Application Number 10/045,837
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		Applicant GURVICH et al.
(Use several sheets if necessary)	SEP 22 2003 FILING DATE	Filing Date January 11, 2002 Group Art Unit 2817

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Bryant, et al., "Parameters of Microstrip Transmission Lines and of Coupled Pairs of Microstrip Lines", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-16, No. 12, December 1968
Herzog, H., "Microstrip Couplers with Improved Directivity", <i>Electronics Letters</i> , Vol. 14, No. 3, February 1978
Schaller, G., "Directivity Improvement of Microstrip N4-Directional Couplers", <i>AEU</i> , Vol. 26, No. 11, 1972, pages 508-509
Rehnmark, S., "High Directivity CTL-Couplers and a New Technique for the Measurement of CTL-Coupler Parameters", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-25, No. 12, December 1977, pages 1116-1121
Podell, A., "A High Directivity Microstrip Coupler Technique", <i>International Microwave Symposium Digest</i> , 1970 G-MTT, pages 33-37
Sheleg, B. et al., "Broad-Band Directional Couplers Using Microstrip with Dielectric Overlays", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-22, No. 12, December 1974, pages 1216-1220
Alexopoulos, V. et al., "Characteristics of Single and Coupled Microstrips on Anisotropic Substrates", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-26, No. 6, June 1978, pages 387-393
Aikawa, M., "Microstrip Line Directional Coupler with Tight Coupling and High Directivity", <i>The Transactions of the IECE of Japan</i> , Vol. E 60, No. 4, Abstracts, pages 206-207, April 1977
Lange, J., "Interdigitated Stripline Quadrature Hybrid", <i>"IEEE Transactions on Microwave Theory and Techniques</i> , December 1969, pages 1150-1151
Presser, A., "Interdigitated Microstrip Coupler Design", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-26, No. 10, October 1978, pages 801-805
Kumar, et al., "Monolithic GaAs Interdigitated 90 Degree Hybrids With 50- and 25- OHM Impedances", <i>1982 IEEE Microwaves &amp; Millimeter Wave Circuits Symposium</i> , Dallas, TX 1982
Lange, J., "Interdigitated Stripline Quadrature Hybrid", <i>G-MTT Int. Microwave Symposium Digest</i> , pages 10-13, May 1969

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89160.0010 - 181117 v1

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SEP 22 2003 U.S. PATENT AND TRADEMARK OFFICE		
	Applicant GURVICH et al.	
	Filing Date January 11, 2002	Group Art Unit 2817

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Lane, J., "Interdigitated Stripline Quadrature Hybrid", <i>IEEE Transactions on Microwave Theory and Techniques</i> , December 1969, pages 1150-1151
Waugh, R. et al., "Unfolding the Lange Coupler", <i>IEEE Transactions on Microwave Theory and Techniques</i> , November 1972, MTT-20, pages 777-779

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